Docket No. EVO-001.01

GEOGRAPHICAL COMPARISON SYSTEM AND METHOD

ABSTRACT

Systems and methods to create venue tokens that provide generalized geographic information while preserving location specific data. In one embodiment, a Universal Location Descriptor (ULD) translator converts location data into a geocode that in one embodiment is a binary code. Location information can include a street address, zip code, directional information, destination, velocity information, latitude and/or longitude, etc. The geocode can then be encrypted to generate a token. Relative geographic similarities can be identified by comparing geographic information from the tokens, thereby allowing similarly situated individuals and/or organizations, service providers, etc., to be identified without disclosing specific location identities of those parties seeking such privacy. The comparison of token geographic information can provide a probabilistic output that, in one embodiment, can be customized using an application-dependent threshold, to generate only those outputs satisfying a specified probability measure.